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Graphosoma (Graphosomella) inexpectatum, a new record for the fauna of Turkey (Hemiptera, Pentatomidae, Podopinae)

Muhabbet Kemal¹ Buket Bakan Meltem Yalçın

Abstract: *Graphosoma (Graphosomella) inexpectatum*, a new record for the fauna of Turkey (Hemiptera, Pentatomidae, Podopinae). *Cesa News* 85: 1-4, 7 figs.

This paper deals with the new record of a subgenus *Graphosomella*, and a species *Graphosoma inexpectatum* in Turkey in the subfamily *Podopinae* (Hemiptera, Pentatomidae). Illustrations of external features of adults, male, female (allotype) genitalia and habitat of the species are given.

Key words: *Graphosoma (Graphosomella) inexpectatum* Podopinae Pentatomidae, Hemiptera, fauna, Turkey, Van, new record.

The genus *Graphosoma* was established by Laporte in 1833 with the type species *Cimex nigrolineatus* Fabricius, 1781, designated subsequently by Reuter (1888). The species *nigrolineatus* Fabr. is currently considered as junior synonym of *Cimex lineatus* Linnaeus, 1758. In Rider's catalogue (2006), totally 9 species are listed validly. These are as follows; *alkani* Lodos, 1959; *consimile* Horvath, 1903; *creticum* Horvath, 1909; *interruptum* White, 1839; *lineatum* Linnaeus, 1758; *melanoxanthum* Horvath, 1903; *rubrolineatum* Westwood, 1837; *semipunctatum* Fabricius, 1775; *stali* Horvath, 1881. Later, Gapon (2007) proposed *creticum* Horv. as junior synonym of *semipunctatum* Fabr. Carapezza & Jindra (2008) established a new subgenus *Graphosomella* (monotypic), and a new species *Graphosoma inexpectatum* from Syria (Bludan) based upon two males. The validity of *G. alkani* Lodos, 1959 described from Diyarbakir (Turkey), is unclear (Carapezza & Jindra, 2008), which is not listed in Turkey (Önder et al., 2006).

¹ <http://zoobank.org/?lsid=urn:lsid:zoobank.org:author:671DD110-BDF1-49C8-964D-2A9251BE7824>

During the expeditions in Van Province (East Turkey) in late June 2011, the authors have collected a series of the specimens of the species *Graphosoma inexpectatum* Carapezza & Jindra, 2008 described from Bludan in May and June. This new place in Turkey is nearly located nearly 800km far from type locality. The information of the new locality of the species, material examined and descriptive images of the adults are give below:

***Graphosoma (Graphosomella) inexpectatum* Carapezza & Jindra, 2008**

Description: Allotype (\varnothing) (Figs.1-3): External morphology, body size, including colouration similar to holotype. Dorsal and ventral sides, including genitalia are illustrated in both sexes (Figs.1-6).

Material examined: 6 ♂ 19♀ Turkey, Van Province, Gevaş, between Göründü and Altinsaç, 1700m, 26.06.2011, 30.06.2011, leg. M. Yalçın, B. Bakan.

Range: The species is known only from type locality Syria (Bludan), and Van Prov. (Turkey).



Figs. 1-4. Descriptive images of *Graphosoma (Graphosomella) inexpectatum*. **1-** top left female (allotype) dorsal view, **2-** top right female (allotype) ventral view, **3-** bottom left female genitalia (allotype), **4-** bottom right male genitalia. Specimens from Van Prov. (Turkey), 30.6.2011 leg. M. Yalçın, photo M Kemal (Cesa)



Figs. 5-6. Descriptive images of *Graphosoma (Graphosomella) inexpectatum*. **5-** dorsal view of male, **6-**ventral view of male. Specimen from Van Prov. (Turkey), 26 6 2011 leg. M. Yalçın, photo M Kemal (Cesa)



Fig.7 – Habitat of *Graphosoma (Graphosomella) inexpectatum* in Van Province (Turkey), photo M. Kemal (Cesa)

This species is recorded for the first time in the fauna of Turkey. Adults were collected on *Smyrnium cordifolium* (Apiaceae) (det. Dr.M.Pinar), an Irano-Turanian element, ranging from East Turkey to Central Asia (Davis, 1985). Habitat of the *Graphosoma* species is a degraded *Juniperus-Quercus* (sporadic) woodland, with sparsely *Prunus*, *Crataegus*, *Pistacia*, *Amygdalus*, *Rosa* bushes, on the rocky slopes and in the openings, *Astragalo-Brometea* formations (Fig.7).

Totally 6 valid species of the genus *Graphosoma* (s.l.) are known in Turkey, i.e., *consimile* Horvath,1903; *lineatum* Linnaeus,1758; *melanoxanthum* Horvath,1903; *semipunctatum* Fabricius,1775; *stali* Horvath,1881, and *inexpectatum* Carapezza & Jindra,2008.

Acknowledgement:

We sincerely thank to Prof. Dr. Ahmet Ömer Koçak for editing our article.

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On two hibernating beetle species in Van Province (East Turkey) (*Coleoptera, Malachiidae, Elateridae*)

Muhabbet Kemal² Ahmet Ömer Koçak³

Abstract: On two hibernating beetle species in Van Province (East Turkey) (*Coleoptera, Malachiidae, Elateridae*). *Cesa News* 85: 5-10, 8 figs. 1 map.

This paper deals with the new provincial record of *Chionotopus humeralis* (*Malachiidae*), and *Drasterius bimaculatus* (*Elateridae*) in Van Province (East Turkey). Information on localities, and other accompanying beetle species are given with illustrations *in situ* and a map.

Key words: *Chionotopus humeralis*, *Malachiidae*, *Drasterius bimaculatus*, *Elateridae*, *Cantharidae*, *Lampyridae*, *Staphylinidae*, *Carabidae*, larva, adult, hibernating, illustration, map, fauna, Turkey, Van.

In 2010 February, authors realized a winter visit to the district Çatak in Van Province (**Figs.1,2**). In this short note, two beetle species are reported as first faunal records in the province. Several accompanying species in larval and adult stages are also illustrated from the same places.

We sincerely thank to Dr. Vladimir Svhla for identifying Malachiid species.

Malachiidae

Chionotopus Abeille de Perrin, 1881

Original Reference: *Chionotopus Abeille de Perrin, 1881, Annls Soc. ent. Fr.* (6) 1: 126. Type-species: *Chionotopus damascaenus* Abeille de Perrin, 1881 (subsequent designation)

***Chionotopus humeralis* (Reiche & Saulcy, 1857) (Fig.3)**

Original Reference: *Malachius humeralis* Reiche & Saulcy, 1857, *Annls Soc. ent. Fr.* (3) 5: 180-181. Type ♂: "Syrie". Range: Turkey (SW Anatolia, Van Prov., Çatak).

Other species of Chionotopus:

***Chionotopus bimaculatus* (Pic, 1911)**

Synonyms: *bimaculatus* Pic, 1911; *in humeralis* Pic, 1911. Range: Iran.

***Chionotopus damascaenus* (Abeille de Perrin, 1881)**

Original Reference: *Malachius damascaenus* Abeille de Perrin, 1881, *Annls Soc. ent. Fr.* (6) 1: 125. Syntypes ♂♀: [Syria]: "Damas". Range: Syria, Damask.

***Chionotopus mossulensis* (Abeille de Perrin, 1881)**

Original Reference: *Malachius mossulensis* Abeille de Perrin, 1881, *Annls Soc. ent. Fr.* (6) 1: 126. Type ♂: [Iraq]: "Mossoul (Mésopotamie)". Range: Iraq, Mosul.

² <http://zoobank.org/?lsid=urn:lsid:zoobank.org:author:671DD110-BDF1-49C8-964D-2A9251BE7824>
³ <http://zoobank.org/?lsid=urn:lsid:zoobank.org:author:4755104C-24B4-4E00-8831-5F5E08B9E831>



Fig. 1 – First author, during winter expedition of 2010 February to Çatak (Van Prov.), at the locality of *Chionotopus humeralis* (Malachiidae), photo A.Ö.Koçak (Cesa)



Fig. 2 – Hibernating place of *Chionotopus humeralis* (Malachiidae) at Çatak vic. Derebaşı 2175m, 28 February 2010 (Van Prov.), photo A.Ö.Koçak (Cesa)



Fig. 3 - *Chionotopus humeralis* (Malachiidae) at Çatak vic. Derebaşı 2175m, 28 February 2010 (Van Prov.), photo M. Kemal (Cesa)

Elateridae

***Drasterius bimaculatus* (Rossi, 1790) (Fig.4, Map.1)**

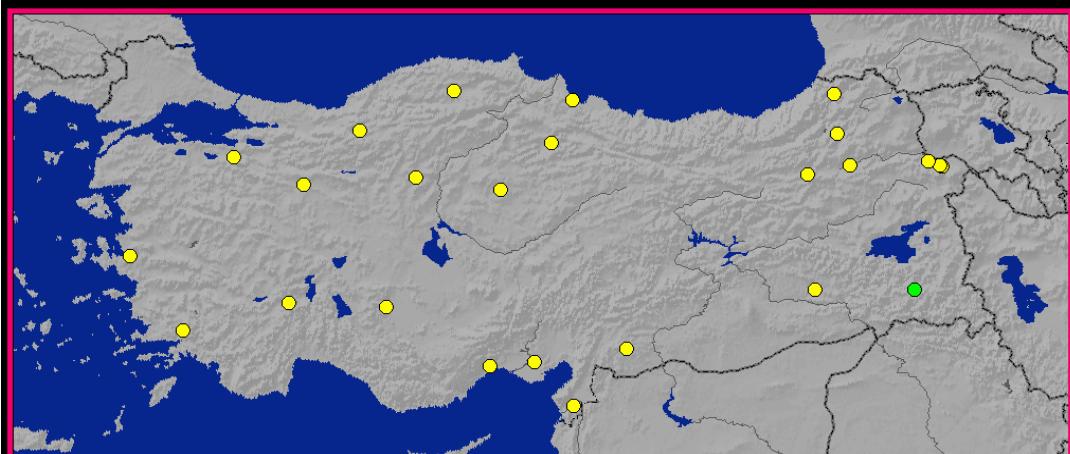
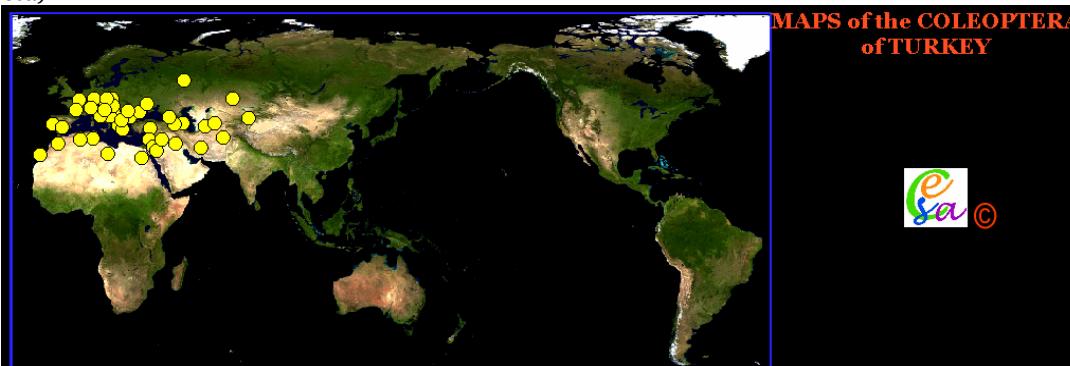
Under the stones in the vicinity of stream bank, near Elmacı 1750m (North of Çatak), a specimen of *Drasterius bimaculatus* has been found in the province for the first time and during hibernating. This small-sized species was described by Rossi in 1790 and currently placed in the genus *Drasterius* Eschscholtz, 1829. A well known species in the Palaearctic, also in Turkey ranging from South Europe, Mediterranean countries to Central Asia.

Other beetles accompanying at the same locality, near Elmacı, are the larvae of *Cantharidae* (**Fig.5**), *Lampyridae* (**Fig.6**), *Staphylinidae* (**Fig.7**), and adult *Brachinius* sp. (*Coleoptera*) (**Fig.8**), the latter is common in spring in the province.

Note: Within the Entomofauna Project of Turkey, *Coleoptera* of Turkey is under preparation, including annotated bibliography; see earlier attempt of the authors within the same Project: List of the coleopteran genera and species recorded in Turkey based upon the Info-system of the Cesa. *Cesa News* 53: 1-213, 145 figs.
<http://archive.org/details/CentreForEntomologicalStudiesAnkaraCesaNewsNr.53>



Fig. 4 - *Drasterius bimaculatus* (Elateridae) at Çatak vic. Elmacı 1750m, 28 February 2010 (Van Prov.), photo M. Kemal (Cesa)



Range of the Species in Turkey and in the World

Map 1 - *Drasterius bimaculatus* in Turkey and in abroad. Green circle is new record for Turkey (based upon the codified distributional information of the Cesa info-system).



Fig. 5 – A cantharid species in larval stage, N. Çatak, Elmacı 1750m, 28 2 2010, photo M Kemal (Cesa)



Fig. 6 – A lampyrid species in larval stage, N. Çatak, Elmacı 1750m, 28 2 2010, photo M Kemal (Cesa)



Fig. 7 – A staphylinid (*Ocyphus* sp.) in larval stage, N. Çatak, Elmacı 1750m, 28 2 2010, photo M Kemal (Cesa)



Fig. 8 – A Bombardier beetle (*Brachinius* sp., *Brachinini*, *Carabidae*), N. Çatak, Elmacı 1750m, 28 2 2010, photo M Kemal (Cesa)

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A nomenclatural note in the family *Heleomyzidae* (*Diptera*)

Ahmet Ömer Koçak⁴ Muhabbet Kemal⁵

Abstract: A nomenclatural note in the family Heleomyzidae (Diptera). *Cesa News* 85: 11. This nomenclatural note deals with homonymy of *Chaetomus* Czerny, 1924 (Diptera) and *Chaetomus* M'Clelland, 1843 (Pisces). A replacement name, *Leanderia* **nom. nov.** is proposed here for *Chaetomus* Czerny, 1924 (Heleomyzidae).

Key words: *Chaetomus*, *Leanderia*, *Scoliocentra*, *Heleomyzidae*, *Diptera*, nomenclature, homonymy.

During the Entomofauna Project of the Cesa, the subgenus name *Chaetomus* proposed by Czerny in 1924 (*Abh. zool.- bot. Ges. Wien* 15: 158), used currently as valid name for several species in the Palaearctic⁶, is determined that it is pre-occupied by *Chaetomus* M'Clelland, 1843 (Pisces) (*Calcutta J. Nat. Hist.* 4: 405). Under the current rules of the ICZN, *Chaetomus* Czerny, 1924 cannot be used as valid name. There is no junior synonym of *Chaetomus* Czerny, 1924. Therefore, we propose here a replacement name, ***Leanderia* nom. nov.** for *Chaetomus* Czerny, 1924 nec M'Clelland, 1843. The new name is dedicated to the original author Leander Franz Czerny (1859-1944), a prominent Austrian dipterist, who published many significant works on Palaearctic Diptera.

New arrangement of the subgenus ***Leanderia* nom. nov.** in the family Heleomyzidae is given below:

Heleomyzidae
Heleomyzini
Scoliocentra Loew, 1862
Leanderia **nom. nov.**
Syn. *Chaetomus* Czerny, 1924 (pre-occupied)

Scoliocentra (Leanderia) confusa (Wahlberg, 1918) (**comb.n.**)
Scoliocentra (Leanderia) flavotestacea (Zetterstedt, 1838) (**comb.n.**)
Scoliocentra (Leanderia) obscuriventris Gorodkov, 1972 (**comb.n.**)
Scoliocentra (Leanderia) biconfusa Gorodkov, 1972 (**comb.n.**)

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⁶ http://www.faunaeur.org/full_results.php?id=61838

<ftp://ftp.funet.fi/pub/sci/bio/life/insecta/diptera/cyclorrhapha/sphaeroceroidea/heleomyzidae/scoliocentra/index.html>

Contents: Kemal,M., Bakan,B. & M.Yalçın, *Graphosoma (Graphosomella) inexpectatum*, a new record for the fauna of Turkey (Hemiptera, Pentatomidae, Podopinae), p.1 – Kemal,M. & A.Ö.Koçak, On two hibernating beetle species in Van Province (East Turkey) (Coleoptera, Malachiidae, Elateridae), p. 5 – Koçak,A.Ö. & M.Kemal, A nomenclatural note in the family Heleomyzidae (Diptera), p.11 - **editorial** p. 12.

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